Operation

Interior Texture Sprayers
RTX 900 & RTX 1250

311768C
EN

For Water-Based Materials Only

Models: 254974 & 254975
70 psi (0.49 MPa, 4.9 bar) Maximum Fluid Working Pressure

Important Safety Instructions.
Read all warnings and instructions in this manual. Save these instructions.

Related Manuals

311777

311772

ti8867a

Model 254975 Shown

PROVEN QUALITY. LEADING TECHNOLOGY.

Warnings

The following are general warnings related to the setup, use, grounding, maintenance and repair of this equipment. Additional, more specific warnings may be found throughout the body of this manual where applicable. Symbols appearing in the body of the manual refer to these general warnings. When these symbols appear through the manual, refer back to these pages for a description of the specific hazard.

Warnings

Fire and Explosion Hazard

Improper grounding, poor ventilation, open flames or sparks can cause a hazardous condition and result in fire or explosion and serious injury.

- The system is for use with water-based materials only. Only use fluids compatible with the equipment. Refer to Technical Data of all equipment manuals. Read fluid and solvent manufacturers warnings.
- Ground the equipment. See **Grounding and Electrical Requirements**, page 6.
- If there is any static sparking or you feel an electric shock while using this equipment, stop spraying immediately. Do not use the equipment until you identify and correct the problem.
- Keep work area free of debris, including solvent, rags and gasoline.
- Comply with all applicable state and national fire, electrical and safety regulations.

Equipment Misuse Hazard

Equipment misuse can cause equipment to rupture, malfunction, or start unexpectedly and cause serious injury.

- Before operating this equipment, read all manuals, tags, and labels including material labels and instructions.
- Do not expose system to rain. Always store system indoors.
- Do not alter or modify equipment.
- Do not spray cementitious materials.
- Do not exceed maximum working pressure of lowest rated component in your system.
- Check equipment daily. Repair or replace worn or damaged parts immediately.
- To reduce risk of serious injury, including electric shock and splashing fluid in eyes, follow **Pressure Relief Procedure** on page 6 before servicing the unit.
- Do not use hoses to pull equipment.
- Route hoses away from traffic areas, sharp edges, moving parts and hot surfaces.
- Do not expose Graco hoses to temperatures above 130 °F (55 °C) or below -35 °F (-37 °C). Store hazardous fluid in an approved container. Dispose of hazardous fluid according to all local, state and national guidelines.
- Never directly inhale compressed air. Compressed air may contain toxic vapors.

Warnings

Burn Hazard

Equipment surfaces and fluid that's heated can become very hot during operation. To avoid severe burns, do not touch hot fluid or equipment. Wait until equipment/fluid has cooled completely.

Electric Shock Hazard

To reduce the risk of electric shock:

- Be sure sprayer is adequately grounded through electrical outlet.
- Use only 3-wire, extension cords.
- Make sure ground prongs are intact on sprayer and extension cords. Improper installation of grounding plug will result in a risk of electrical shock, fire or explosion that could cause serious injury or death.
- Do not operate with cover removed.
- Turn off sprayer. Follow **Pressure Relief Procedure, page 6,** and unplug unit, before removing any parts.

Pressurized Equipment Hazard

Fluid from gun, leaks or ruptured components can splash in the eyes or on skin and cause serious injury.

- Follow **Pressure Relief Procedure, page 6** when you stop spraying and before cleaning, checking or servicing.
- Do not point spray gun at anyone; put hand, fingers or rag over nozzle, or stop or deflect leaks with your hand, body, glove, or rag.
- Wear protective clothing, gloves, and eyewear.

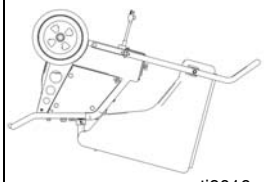
Cleaning Solvent Hazard with Plastic Parts

Use only compatible water-based solvents to clean plastic structural or pressure-containing parts. Many solvents can degrade plastic parts to the point where they could fail. Such failure could cause serious injury or property damage. See Technical Data on page 16 of this instruction manual and in all other equipment manuals. Read fluid and solvent manufacturer's warnings.

Personal Protective Equipment

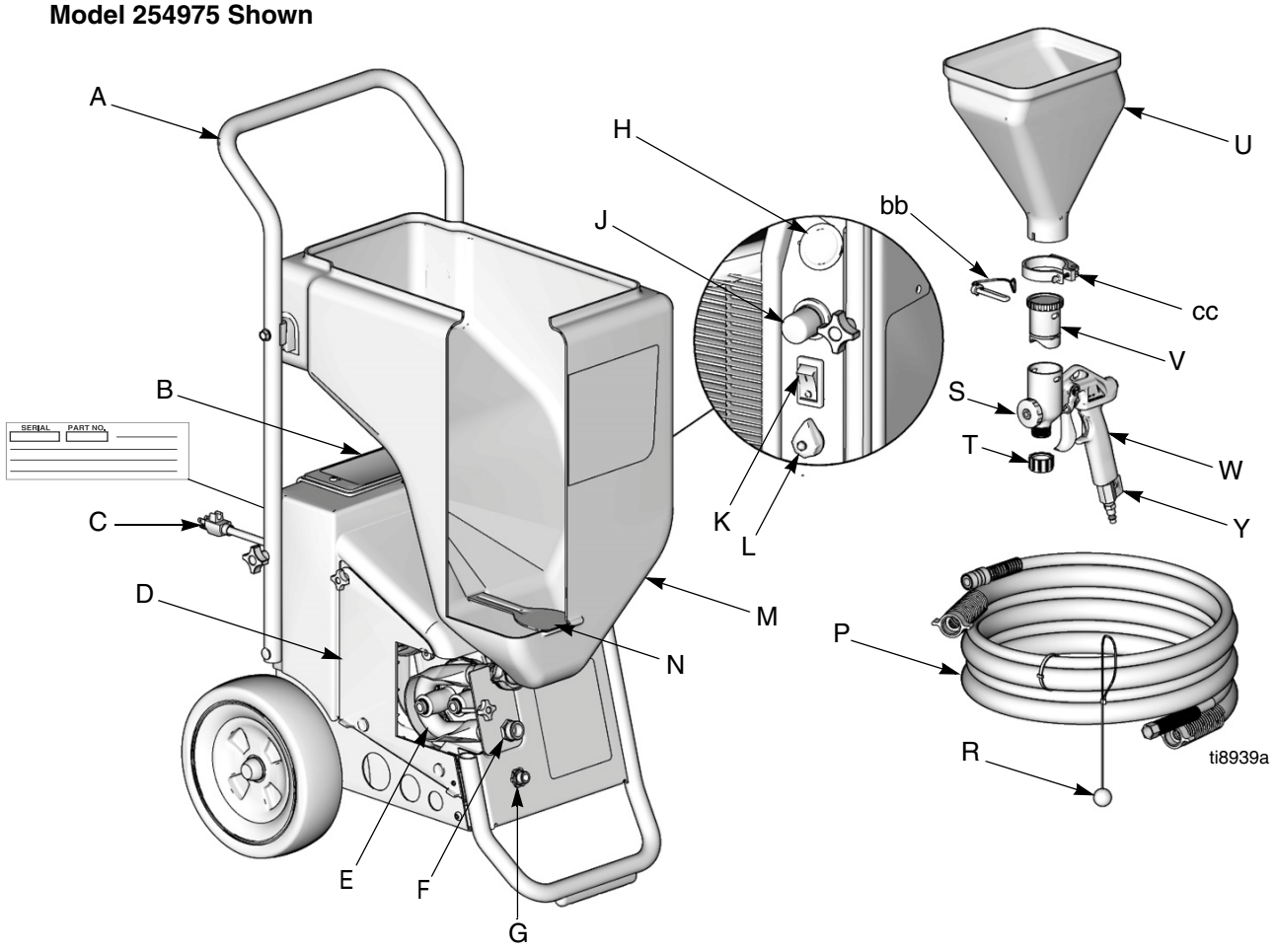
You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

- Protective eyewear
- Clothing and respirator as recommended by the fluid and solvent manufacturer
- Gloves
- Hearing Protection

CAUTION	
 ti9016a	• Water or material remaining in unit when temperatures are below freezing can damage motor and/or delay pump startup. Do not allow unit to freeze. • Before adding material or starting unit in cold weather, run warm water through pump. To ensure water and material are completely drained out of unit: 1. Remove material line from sprayer. 2. Tip sprayer up as shown.
 ti9010a	Before adding material to the hopper, install the burp guard. When only a small amount of material remains in the hopper, the burp guard prevents material from shooting out when the unit is turned off. This material could splash in the operator's eyes or on skin, or into the air.

Component Identification

Model 254975 Shown



Item	Component	Item	Component
A	Handle	N	Burp Guard
B	Toolbox	P	Material/Air Hose
C	Power Cord (120V, 25 ft)	Q	Accessories Bag
D	Side Pump Access Panel (RTX 1250 Only)	R	Material Thickness Gauge
E	RotoFlex™ II Pump (inside)	S	Nozzle
F	Pump Hose Outlet	T	Hose Plug
G	Air Hose Outlet	U	Touch-Up Hopper (3/4 gallon)
H	Material Flow Gauge	V	Gun Plug
J	Material Flow Control	W	Hopper Gun
K	ON/OFF Switch	Y	Air Control
L	Selector Switch	bb	Gun Plug Clip
M	Material Hopper - 10 gallon, RTX 900 Material Hopper - 12 gallon, RTX 1250	cc	Hopper Clamp

Preparation

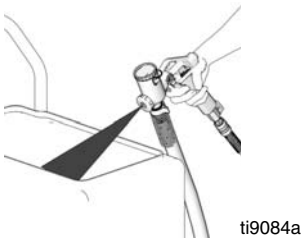
Pressure Relief Procedure

To reduce risk of injury, follow this procedure whenever you see this symbol throughout this manual, Also, perform this procedure whenever you:

- Stop spraying
- Check or repair any part of this system
- Install or clean spray nozzle

1. Turn Power Switch OFF.

2. Trigger gun into material hopper.

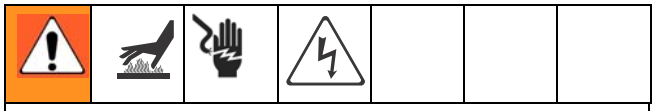


3. Open gun air valve.

Grounding and Electrical Requirements

This sprayer must be grounded. Grounding reduces the risk of electrical shock by providing an escape wire for the electrical current. The sprayer cord includes a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

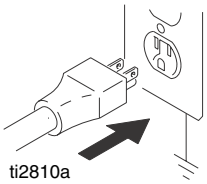
Check with a qualified electrician or serviceman if grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded. Do not modify plug provided; if it will not fit the outlet, have proper outlet installed by a qualified electrician.



Air hose fittings can get hot! Allow sprayer to cool down 15 minutes before removing air hose.

120V AC Systems

- This equipment requires a 120V AC, 60 Hz, 15A circuit with a grounding receptacle. Do not use an adapter with this product.



Extension Cords

- Use only an extension cord with an undamaged, 3-prong plug.
- For 25 to 50 ft (7.6 to 15.2 m) cords, use 3-wire, 14 AWG (1.5 mm^2) minimum.
- For up to 100 ft. (30.48 m) cord, use 3-wire, 12 AWG (2.5 mm^2) minimum.

Auxiliary Air Compressor

Do not use an auxiliary air compressor with this spray system.

Generator Requirements

3500 W (3.5 kW) minimum.

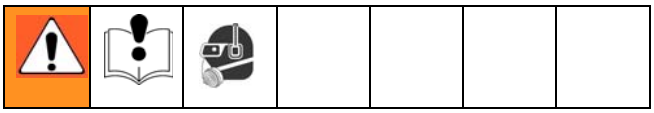
Hose Size and Length

The system comes with a hose set consisting of a 3/4 in. ID x 25 ft (25 mm x 7.6 m) material hose and a 3/8 in-ID air hose.

Do not use more than 25 ft (7.6 m) of material hose.

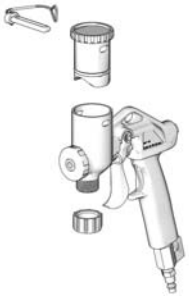
Setup

Important
• If you are going to stop spraying for more than 5 minutes, turn sprayer off to prevent shortened pump hose life.
• Do not allow material to dry inside pump, hoses, gun or spray system.



Texture Spraying (material supplied from unit)

When using material supplied from unit, insert the Gun Plug in the top of the gun. Hose plug must be removed from bottom of gun.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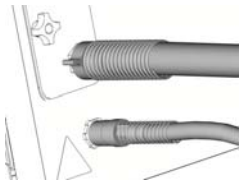
1. Connect air hose and material hose to sprayer air and material hose outlets.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2. Open air valve.

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3. Connect air hose to gun.

ti8534a

4. Connect material hose to gun.

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5. Make sure burp guard is installed, **Caution**, page 3.

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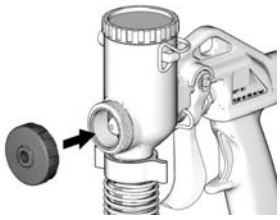
6. Install spray nozzle. See **Recommended Nozzle Selection Chart**, Page 11.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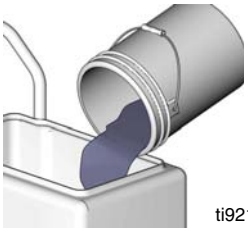
7. Fill material hopper with 1 gallon of water.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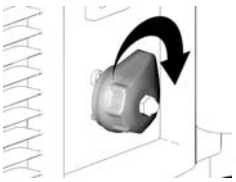
8. Turn hopper gun/spray gun selector switch to SPRAY GUN.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9. Turn power switch ON.

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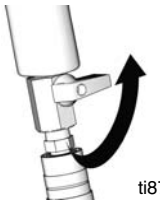
10. Close gun air valve.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11. Point gun into waste bucket and pull trigger to pump water through the system. Continue to trigger gun until material hopper is empty.

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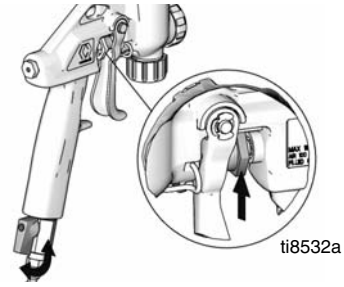
12. Add pre-mixed texture mix to material hopper. See Mixing Material, page 10.

13. Continue to trigger gun and spray into waste bucket until a steady stream of material sprays out of gun.

14. Release trigger. To achieve uniform spray pattern, adjust air valve and flow adjustment nut on gun. If you do not achieve the desired pattern, change nozzles, page 11.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Fluid flow will be restricted if the material hose is kinked.

Touch Up Hopper Attachment

CAUTION
Failure to change selector switch to Hopper Gun when using hopper gun will damage pump hose.

The Hose Plug must be securely fastened to bottom of gun when using the Touch Up Hopper. Gun plug must be removed from top of gun.

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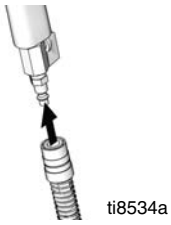
1. Connect air hose to sprayer.

2. Connect air hose to gun.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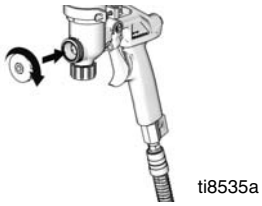
3. Slide hopper on top of gun, and tighten clamp.

4. Install spray nozzle. Page 11.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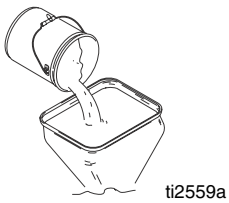
5. Fill Touch-up hopper with pre-mixed texture. See Mixing Material, page 10.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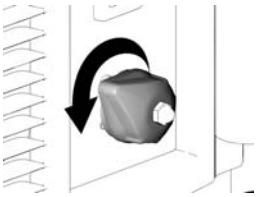
6. Turn hopper gun/spray gun selector switch to HOPPER GUN.



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7. Open gun air valve.

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8. Turn power switch ON.

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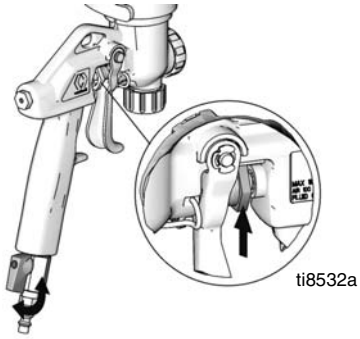
9. To achieve uniform spray pattern, adjust air valve and flow adjustment nut on gun. If you do not achieve the desired spray pattern, change nozzles (see page 11).



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Mixing Material

Correct material mixture is essential. The pump will not operate if the mixture is too thick.

Mix the material in a separate container before pouring it into hopper.

Use Material Thickness Gauge to determine mixture is thin enough to spray.

*The Material Thickness Gauge will only determine if the material is thin enough to pass through the pump. For some applications or for higher speed spraying, your mixture may need to be thinner.

Dry Mix - 40 lb (18 kg) bag

For best results, do not use partial bags of material.

1. Carefully mix texture material and water according to manufacturer instructions on bag.

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2. Agitate to mix, using a half-inch, variable speed drill with mixing paddle, to a smooth, lump-free consistency.

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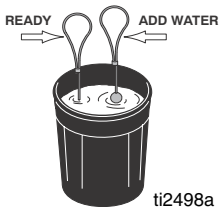
3. Allow ceiling texture to set for at least 15 minutes. Then remix prior to use.

4. After texture material is thoroughly mixed, gently set ball end of Material Thickness Gauge on surface of mixture.

For an accurate test, be sure gauge is completely dry and clean every time it is used.

5. Observe the ball on the material. When the material is thin enough to spray the ball will sink completely into the mixture.



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6. If the ball does not sink completely into the mixture within 10 seconds, add more water, agitate and try test again.

Premix

1. Slowly add approximately 2 to 4 qts (1.9 to 3.8 liters) of water to a 5 gallon (18.9 liter) bucket of premix.

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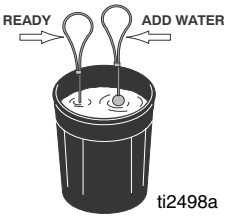
2. Agitate to mix, using a half-inch, variable speed drill with a mixing paddle, to a smooth, lump-free consistency.

3. After texture material is thoroughly mixed, gently set ball end of Material Thickness Gauge on surface of mixture.

For an accurate test, be sure gauge is completely dry and clean every time it is used.

4. Observe the ball in material. When the material is thin enough to spray the ball will sink completely into the mixture.



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5. If the ball does not sink completely into the mixture within 10 seconds, add more water, agitate and try test again.

Spray Techniques

Recommended Nozzle Selection Chart

Application	Nozzle Size[2]	Air Volume[1]
Simulated Acoustic	6 mm, white *(fine to medium)* 8 mm, gray *(coarse)*	medium to high
Orange peel	4 mm, beige, 6 mm, white	medium to high
Splatter coat	6 mm, white 8 mm, gray	low to medium
Knockdown	8 mm, gray 12 mm, black	low

[1]Control air volume with gun air valve.

[2]For more material volume try a larger nozzle.

Adjusting the System

Sufficient fluid output (volume and pressure) and good atomization is a balance of atomozing air, material thickness/material flow and nozzle selection. Achieving the correct balance for your application requires experimentation to achieve desired results. Keep in mind these important points when adjusting gun:

- Select proper nozzle for your application. See Nozzle Selection Chart. Remember, the larger the nozzle, the heavier the pattern.
- Start sprayer with gun air flow valve completely open. If needed, slowly close gun air flow until you get a good spray pattern. Use minimum amount of air at spray gun to achieve proper spray pattern and to minimize bounce back.

  + Test spray pattern on cardboard. Hold gun 18 to 24 in. (45.7 to 60.9 cm) from surface. Use this spraying distance for most applications.
- Air and material flow adjustments are made at the gun on all units. RTX 1250 units have a material flow control selector knob (L).

  + Opening air valve increases air flow through gun, which decreases texture material flow through pump.

  + Closing air valve decreases air flow through gun, which increases texture material flow through pump.

To Get Less Material

Try one or a combination of these methods:

- Open air valve.
- Turn gun flow adjustment nut to decrease flow, counter-clockwise.
- Use smaller nozzle.

To Get More Material

Try any one or a combination of these methods:

- Close air valve.
- Turn gun flow adjustment nut to increase flow, clockwise.
- Use thinner material mixture.
- Use a larger nozzle.

Preventing Material Surge at Gun Trigger

Pressure will build up in the system when you stop triggering the gun. To prevent material surge at initial gun triggering:

- Point gun away from surface you are spraying when you first pull trigger.
- When you first start to spray, hold the gun away from the surface and gradually work your way closer to it.
- Keep gun moving.
- After you begin spraying, trigger the gun as little as possible.

For Continuous Spraying

Use trigger lock to hold trigger open and reduce fatigue.

Check Material Consistency Periodically

Check and thin material as needed to maintain proper consistency. The material may thicken as it sits and slow down production. Agitate periodically.

Shutdown and Cleanup

Keep pump and hose clean when switching between simulated acoustic, knockdown and orange peel applications. A dirty pump can release particles of texture into the finish.

CAUTION
• To increase pump life, turn power off when not spraying. • Before removing material hose be sure pressure is relieved and material is not in hose. • To keep unit in good operating condition, always clean it thoroughly and prepare it properly for storage.

Texture Spraying (8-10 gallon Material Hopper)

When you have finished spraying:

1. Open gun air valve.

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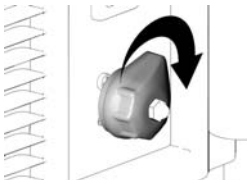
2. Make sure hopper gun/spray gun selection switch is turned to SPRAY GUN.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3. Turn power switch ON.

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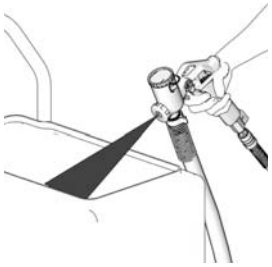
4. Close gun air valve.
5. Trigger gun into bucket until most of texture mix is pumped out.
6. Fill material hopper with 2-4 gallons of clean water.
7. Spray inside material hopper to circulate water through gun and hose. While circulating water, use gun to clean material hopper.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8. Partially open gun air valve to use air to achieve better cleaning results.
9. Spray water into a waste bucket to empty material hopper.

A soft brush can be used to loosen dried on material.

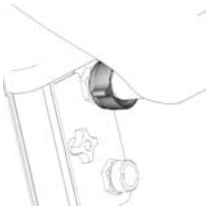
10. Turn power switch OFF.
11. Open gun air valve. **Relieve Pressure**, page 6.

CAUTION
If water freezes in unit damage may occur. In cold weather store system where it will not freeze.

Removing Material Hopper From Sprayer:

The material hopper can be removed for cleaning. To remove material hopper:

1. Loosen bottom fitting.



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2. Lift material hopper straight up, off unit.

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3. Plug opening on bottom of material hopper with your hand.
4. Take hopper to cleaning area.

To Reassemble:

1. Place material hopper on sprayer, aligning fitting to sprayer.
2. Hand tighten fitting.

Touch-up Hopper Attachment

When you have finished spraying, perform the following steps:

1. Shut off compressor. Disconnect air line from gun.
2. Drain material into a bucket until most of the texture material is out of hopper.

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3. Fill hopper with clean water. Remove nozzle from gun and allow water to flow through and out of gun.
4. Flush until gun is clean
5. Turn power switch ON.

ti9222a

6. Open gun air valve.

ti8528a

7. Trigger gun to blow air through tip, clearing out any remaining material.
8. Remove hopper from gun and finish cleaning all components. A soft brush may be used to help loosen any dried on material from surface.

Be sure to keep air passages in needle clean and free of material.

To improve working condition for future use, after cleaning, apply a few drops of light oil to:

- Air hose quick disconnect
- Material hose connections
- Flow adjustment on gun

Transporting the Sprayer

The handle and hopper can be removed from the sprayer for storage or transporting.

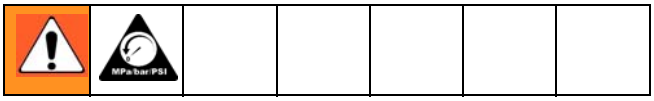
To remove hopper from sprayer, follow the procedure described on page 13.

To remove the handle:

1. Loosen two (2) wing-nut screws on either side of handle.
2. Spread handle apart and remove.

The handle is only to be used to push or pull the sprayer.

Troubleshooting



Problem	Cause	Solution
Sprayer won't run	Power switch not on	Turn switch on.
	No power at wall outlet	Check outlet by plugging in another appliance. If appliance does not work, try another outlet.
	Wrong size generator	Use a 3500 watt or larger generator. Refer to Generator Requirements, page 6.
	Breaker tripped	Reset breaker.
Pump won't pump material	Air lock	Open air valve on gun.
	Selector switch in wrong position	Move selector switch to correct position for application.
	Mix too thick	Add water to thin material. Use Material Thickness Gauge.
	Loose fittings	Check and retighten all fittings.
	Plugged gun	**Relieve Pressure,** page 6. Remove gun from hose. Clean gun.
	Pump hose worn out	Replace hose. Recommended hose replacement - once every year.
	Pump cold	Move pump to warm room and allow it to warm up or run hot water through sprayer.
Material runs out of bottom of sprayer	Pump hose worn out	Replace hose.
	Loose fittings	Check and retighten all fittings.
No air from compressor	Gun air valve closed	Open gun air valve.
	Low voltage	Check extension cord length and gauge. Replace if different than recommended. Refer to Grounding and Electrical Requirements, page 6.
	Gun needle plugged	Clean needle and retry.
	Worn compressor	Replace compressor. Contact a qualified Graco Service Center.
	Lines not connected	Check all quick disconnect connections to gun and hoses.
	Damaged hose	Replace hose.

Problem	Cause	Solution
Speed of application slow or slower	Material too thick	Thin material.
	Nozzle too small	Change nozzles to a larger size. See Recommended Nozzle Selection Chart, page 11.
	Too much air being used.	Partially close gun air valve to reduce air flow.
	Pump hose worn	Replace hose.
	Plugged or dirty gun	**Relieve Pressure**, page 6. Clean gun.
	Kinked hose	Unkink hose.
	Gun adjustment set too low	Increase flow adjustment with flow adjustment nut.
	Too many items on same circuit	Unplug other items from circuit.
	Extension cord too long or wrong gauge	Use a different extension cord. Refer to Grounding and Electric Requirements, page 6.
Intermittent flow/sputtering	Hopper connection not tight	Check gasket. TIghten connection.
	Debris in system	Clean system.
Quick disconnect does not stay connected.	Dirty or corroded fitting	Clean thoroughly. Soak in oil. Apply a few drops of light oil.
Gun will not shut off	Worn nozzle or needle.	**Relieve Pressure**, page 6. Replace worn parts.
	Debris in needle passage	**Relieve Pressure**, page 6. Clean.
Fluid leaking at Flow Adjustment Nut	Damaged seal.	**Relieve Pressure**, page 6. Replace seal.
Fluid leaking out of either plug	Missing or damaged o-rings	**Relieve Pressure**, page 6. Replace o-rings.
	Gun damaged	Replace gun.
Needle adjustment won't adjust	Dirty threads	Clean threads.
	Nozzle not on gun	Put nozzle on gun.

Technical Data

Main unit power requirements	120 Vac, 60 Hz, 15A, 1 phase
Maximum fluid working pressure	70 psi, (4.9 bar)
Maximum air working pressure	50 psi, (3.5 bar)
Compressor specifications	Universal motor thermally protected, oil-less
Compressor air displacement	4.0 scfm at 45 psi
Generator required	3500W minimum
Electric Motor	Universal AC 14 Amp 1.5 Hp
Power Cord	16 AWG, 3-wire, 25 ft
Material hopper capacity	Model 254974: 8 gallons Model 254975: 10 gallons Gun material hopper: 3/4 gallon
Maximum delivery with texture	RTX 900 - 0.9 gpm (3.4 lpm) RTX 1250 - 1.25 gpm (4.7 lpm)
Dimensions: RTX 900	
Length	23 in. (584 mm) with handle
Width	18 in. (456 mm)
Height	40 in. (1016 mm)
Weight (includes hose and gun)	60 lb (27.2 kg)
Dimensions: RTX 1250	
Length	24 in. (609 mm) with handle
Width	20 in. (508 mm)
Height	41 in. (1041 mm)
Weight (includes hose and gun)	65 lb (29.5 kg)
Wetted parts	brass, aluminum, plastic
Sound data	
Sound pressure level*	83.2 dB(A)
Sound power level**	97.5 dB(A)
Storage Temperature Range	35°F - 160°F (1.6°C - 71°C)
Operating Temperature Range	40°F - 115°F (4°C - 46°C)
Gun:	
Maximum Working Pressure	70 psi (4.9 bar)
Air Maximum Working Pressure	100 psi (6.895 bar)
CFM Rating	3.5 - 11 CFM
Weight	1.1 lb (500 g)

*Measured while spraying at 1 m.
**Measured per ISO-3744

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Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

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Original instructions. This manual contains English. MM 311768

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